

C L A I M S

1. An electronic apparatus having a communication device, comprising:

5           a memory which stores identification information for identifying an external device having been previously connected to the communication device;

          an operation switch;

          means for establishing connection with an external  
10       device designated by identification information stored in said memory in response to the operation of said operation switch; and

          means for receiving data transmitted from the external device with which the connection is  
15       established by the establishing means via the communication device.

2. An electronic apparatus according to the claim 1, further comprising:

20           means for reproducing the data received by the receiving means; and

          means for determining whether or not a data form of a data which may be transmitted by an external device connected to the communication device coincides  
25       with a data form of a data which may be reproduced by the reproducing means,

wherein the memory stores identification information for identifying the external device connected to the communication device under a condition where the data forms coincide with each other.

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3. An electronic apparatus according to claim 2, wherein said determining means determines whether or not a type of an encoding scheme applied to data to be transmitted, which type is transmitted from said external device connected to the communication device, is a type of an encoding scheme which may be decoding by the reproducing means.

4. An electronic apparatus according to claim 2, wherein said determining means determines whether or not a type of an encoding scheme applied to data to be transmitted and a value of a sampling frequency used in the encoding, which type and values are transmitted from said external device connected to the communication device, are a type of an encoding scheme and a value of a sampling frequency which may be decoded by said reproducing means.

5. An electronic apparatus according to claim 2, wherein the data transmitted from the external device is audio data, and said reproducing means includes an

output unit which outputs sounds corresponding to the audio data.

5           6. An electronic apparatus according to claim 1,  
wherein the identification information for identifying  
the external device includes address information  
allocated to the external device.

10           7. An electronic apparatus according to claim 1,  
further comprising means for setting the communication  
device in either one of a first communication mode for  
receiving data transmitted from the external device or  
a second communication mode for bidirectionally  
transmitting and receiving data between the external  
15       device and the communication device.

          8. An electronic apparatus according to claim 7,  
wherein said memory stores identification information  
for identifying the external device wirelessly  
20       connected to the communication device as first  
identification information when the communication  
device is in the first communication mode, and stores  
identification information for identifying the external  
device wirelessly connected to the communication device  
25       as second identification information when the  
communication device is in the second communication

mode.

9. An electronic apparatus according to claim 8,  
wherein said establishing means includes means for  
5 transmitting a connection request to the external  
device designated by the identification information  
stored as the first identification information in  
response to an operation of said operation switch when  
the communication device is in the first communication  
10 mode, and for transmitting a connection request to the  
external device designated by the identification  
information stored as the second identification  
information in response to an operation of the  
operation switch when the communication device is in  
15 the second communication mode.

10. A communication control method for controlling  
communication made by an electronic apparatus,  
comprising steps of:  
20 storing identification information for identifying  
an external device which has been previously  
established a connection with the electronic apparatus;  
inputting an instruction;  
establishing connection with the external device  
25 designated by the identification information stored in  
the storage step in response to the instruction; and

receiving data transmitted from the external device over the established connection.

11. A communication control method according to  
5 claim 10, further comprising determining whether or not  
a data form of data which may be transmitted by the  
external device connected to the electronic apparatus  
coincides with a data form of data which may be  
reproduced by the electronic apparatus,

10 wherein the storing step stores identification  
information for identifying the external device  
connected to the electronic apparatus only where it is  
determined that the data forms coincides with each  
other.

15 12. A communication control method according to  
claim 11, wherein the determining step determines  
whether or not a type of an encoding scheme applied to  
data to be transmitted, which type is transmitted from  
20 the external device to the electronic apparatus, is a  
type of an encoding scheme which may be decoded by the  
electronic apparatus.

25 13. A communication control method according to  
claim 11, wherein the determining step determines  
whether or not a type of an encoding scheme applied to

data to be transmitted and a value of a sampling  
frequency used in the encoding, which type and sampling  
are transmitted from the external device to the  
electronic apparatus, are a type of an encoding scheme  
5 and a value of a sampling frequency which may be  
decoded by the electronic apparatus.

14. A communication control method according to  
claim 10, further comprising setting the electronic  
10 apparatus in either one of a first communication mode  
for receiving data transmitted from the external device  
or a second communication mode for bidirectionally  
transmitting and receiving data between the electronic  
apparatus and the external device.

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15. A communication control method according to  
claim 14, wherein the storing step stores  
identification information for identifying the external  
device connected to the electronic apparatus as first  
20 identification information when the electronic  
apparatus is in the first communication mode, and  
stores identification information for identifying the  
external device connected to the electronic apparatus  
as second identification information when the  
25 electronic apparatus is in the second communication  
mode.

16. A communication control method according to claim 15, wherein the establishing step transmits a connection request to the external device designated by the identification information stored as the first identification information in response to the instruction input when the electronic apparatus is in the first communication mode, and transmits a connection request to the external device designated by identification information stored as the second identification information in response to the instruction when the electronic apparatus is in the second communication mode.

17. An electronic apparatus having a communication device, comprising:

a memory which stores identification information for identifying an external device having been previously connected to the communication device;

an operation switch;

means for establishing connection with an external device designated by identification information stored in said memory in response to the operation of said operation switch; and

means for reproducing data transmitted from the external device with which the connection is

established by the establishing means via the  
communication device.

18. An electronic apparatus according to claim 17,  
5 wherein the identification information for identifying  
the external device includes address information  
allocated to the external device.

19. An electronic apparatus according to claim 17,  
10 further comprising means for setting the communication  
device in either one of a first communication mode for  
receiving data transmitted from the external device or  
a second communication mode for bidirectionally  
transmitting and receiving data between the external  
15 device and the communication device.

20. An electronic apparatus according to claim 17,  
wherein the data transmitted from the external device  
is audio data, and said reproducing means includes an  
20 output unit which outputs sounds corresponding to the  
audio data.